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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/039,237	12/31/2001	Tameka Spence	KCC 4782 (K.C. No. 17,029	7293

321 7590 12/26/2002

SENNIGER POWERS LEAVITT AND ROEDEL  
ONE METROPOLITAN SQUARE  
16TH FLOOR  
ST LOUIS, MO 63102

EXAMINER

HALPERN, MARK

ART UNIT	PAPER NUMBER
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1731

DATE MAILED: 12/26/2002

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Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application N .</b>		<b>Applicant(s)</b>	
	10/039,237		SPENCE ET AL.	
	<b>Examiner</b>		<b>Art Unit</b>	
	Mark Halpern		1731	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4, 7-14 and 17-22 is/are rejected.
- 7) ☒ Claim(s) 5, 6, 15 and 16 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). ____   |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>6</u> | 6) <input type="checkbox"/> Other: _____                                    |

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- 1) Claims 1-4, 11, are rejected under 35 U.S.C. 102(b) as being anticipated by Taylor (2,935,437).

Claims 1-4: Taylor discloses a method wherein paper stock pulp is deposited over a wire of Fourdrinier machine to form a paper web. The formed web is then dewatered and dried (col. 2, lines 15-20, and col. 4, lines 54-59). Sodium bicarbonate is added to the furnish for pH control prior to depositing of the stock onto the forming wire. The pH range is from 4 to about 9.2 (col. 2, lines 20-55).

Claim 11: the paper stock may be made of broke, cuttings, scraps of paper (col. 2, lines 17-26) and rag fiber (col. 7, line 65).

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

- 2) Claims 7-10, 12-14, 17-20, are rejected under 35 U.S.C. 103(a) as being unpatentable over Taylor in view of Shannon (6488,812).

Claims 7-10, 12-14: Taylor discloses a method wherein paper stock pulp is deposited over a wire of Fourdrinier machine to form a paper web. The formed web is then dewatered and dried (Taylor, col. 2, lines 15-20, and col. 4, lines 54-59). Sodium bicarbonate is added to the furnish for pH control prior to depositing of the stock onto the forming wire. The pH range is from 4 to about 9.2 (Taylor, col. 2, lines 20-55). Taylor fails to disclose that the web is dried by heated gas, air, having a temperature of at least 190 °C. Shannon discloses air drying of formed web at about 390 °F (about 199 °C) (Shannon, col. 14, lines 15-36). It would have been obvious, to one skilled in the art at the time the invention was made, to combine the teachings of Taylor and Shannon, because such a combination would provide additional means of drying the web in the design of Taylor, since Taylor teaches that drying of the web may be conducted according to conventional procedures (Taylor, col. 4, lines 54-59).

Claim 20: the paper stock may be made of broke, cuttings, scraps of paper (col. 2, lines 17-26) and rag fiber (col. 7, line 65).

- 3) Claim 21 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Taylor. Taylor discloses a method wherein paper stock pulp is deposited over a wire of Fourdrinier machine to form a paper web. The formed web is then dewatered and dried (col. 2, lines 15-20, and col. 4, lines 54-59). Sodium bicarbonate is added to the furnish prior to depositing of the stock

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onto the forming wire (col. 2, lines 20-55). It is inherent that the paper of Taylor will exhibit a reduction of malodor upon wetting.

In the event any differences can be shown for the product of the product-by-process claim 21, as opposed to the product taught by the reference Taylor, such differences would have been obvious to one of ordinary skill in the art as a routine modification of the product in the absence of a showing of unexpected results; see also In re Thorpe, 227 USPQ 964 (Fed. Cir. 1985).

4) Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Taylor in view of Chen (6,261,679). Taylor is applied as above for claim 21, Taylor fails to disclose a paper product of a basis weight of from about 25 to about 45 grams/m<sup>2</sup>. Chen discloses a paper product containing sodium bicarbonate (col. 9, lines 45-51) and having a basis weight of 10-100 grams/m<sup>2</sup> (col. 48, lines 40-53). It would have been obvious, to one skilled in the art at the time the invention was made, to combine the teachings of Taylor and Chen, because such a combination would provide a wide range of products of the Taylor design.

#### ***Allowable Subject Matter***

5) Claims 5-6, 15-16, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

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The primary reason for indicating allowable subject matter is that the cited prior art does not show a process for manufacturing a cellulosic paper wherein sodium bicarbonate is added to the suspension in the amount claimed (claims 5-6, 15-16).

***Conclusion***

6) Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Halpern whose telephone number is 703-305-4522. The examiner can normally be reached on Mon-Fri, (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 703-308-1164. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7718 for regular communications and 703-305-3599 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.



Mark Halpern  
Patent Examiner  
Art Unit 1731

December 19, 2002